

What is claimed is

1. A testing method of array configuration for multiple disk-array system containing at least one disk array, each array having at least one disk drive with an array configuration, said array configuration comprising array quantity of disk drives, a disk sequence/function and serial check sum of every disk drive
5 in one disk array, said testing method comprising steps of:

reading array configuration;
acquiring a quantity of disk drives;
reading said serial check sum of all disk drives from one array; and
10 comparing said quantity of disk drives with another quantity of disk drives deduced from said serial check sum of each disk drive in one array.

2. The testing method as in claim 1, wherein said serial check sums of disk drives in one disk array are arranged sequentially and functionally..

3. The testing method as in claim 2, further comprising steps of:
15 acquiring a disk sequence/function in said array configuration; and
comparing said disk sequence/function with another disk sequence/function deduced from said serial check sums of said disk drives in one disk array.

4. The testing method as in claim 1, wherein said serial check sum of each
20 disk drive is obtained according to a numeration on a model number, a serial number, and a firmware revision number of said disk drive.

5. The testing method as in claim 1, wherein said array configuration further comprises an array type, which is relevant to a recording method of said quantity of disk drives.

25 6. The testing method as in claim 5, wherein said quantity of disk drives in a specific array is determined by:

reading an array type;
reading an array type related quantity of disk drives record; and
numerating a quantity of disk drives in said array.

30 7. The testing method as in claim 3, wherein said array configuration further comprises an array type, which is relevant to a recording method of said disk sequence/function.

8. The testing method as in claim 7, wherein said disk sequence/function in a specific array is determined by:

reading an array type;

reading an array type related by said disk sequence/function record; and
calculating a disk sequence/function for each disk drive in said array.

5 9. A testing method of array configuration for multiple disk-array system
containing at least one disk array, each array having at least one disk drive with
an array configuration, said array configuration comprising array quantity of
disk drives, a disk sequence/function and serial check sum of every disk drive
in one disk array, said serial check sums of said disk drives in one disk array
being arranged in an order according to a sequence and a function of said disk
10 drives, said testing method comprising steps of:

reading array configuration;

acquiring said disk sequence/function of said array from said array
configuration;

reading said serial check sum of all disk drives from said array; and

15 comparing said disk sequence/function with another disk
sequence/function deduced from said serial check sum of each disk drive in one
array.

10. The testing method as in claim 9, further comprising steps of:

acquiring a quantity of disk drives from said array; and

20 comparing said quantity of disk drives with another quantity of disk drives
deduced from said serial check sum of each disk drive in said array.

11. The testing method as in claim 9, wherein said serial check sum of
each disk drive is obtained according to a numeration on a model number, a
serial number, and a firmware revision number of said disk drive.

25 12. The testing method as in claim 9, wherein said array configuration
further comprises an array type, which is relevant to a recording method of said
disk sequence/function.

13. The testing method as in claim 12, wherein said disk
sequence/function in a specific array is determined by:

30 reading an array type;

reading an array type related by said disk sequence/function record; and
calculating a disk sequence/function for each disk drive in said array.

14. The testing method as in claim 9, wherein said array configuration
further comprises an array type, which is relevant to a recording method of said

quantity of disk drives.

15. The testing method as in claim 14, wherein said recording method of said quantity of disk drives comprises steps of:

reading an array type;

5 reading an array type related by said quantity of disk drives record; and
numerating a quantity of disk drives in said array.